

### Listing of Claims

This listing of Claims is provided for completeness. No changes have been made to the Claims presented in the response to the previous office action.

What is claimed is:

1. (previously presented) A clone-brushing method of painting in a 2D image, the method comprising: a) specifying a first world plane in the 2D image; b) providing a source position and a destination position in the 2D image; c) identifying a destination region in the 2D image relative to the destination position; d) determining a source region in the 2D image relative to the first world plane and corresponding to the destination region wherein the source region in the 2D image is determined by a transformation that maps the destination position to the source position and a homography defined by the first world plane ;e) transforming 2D image information of the source region relative to the first world plane to 2D image information of the destination region; and f) painting in the 2D image by copying the transformed 2D image information to the destination region.

2. cancelled.

3. (previously presented) The method of Claim 1, wherein specifying a first world plane in the 2D image comprises specifying two sets of parallel lines.

4. (previously presented) The method of Claim 1, wherein transforming 2D image information) further comprises a bilinear interpolation of 2D image information in the source region relative to the first world plane.

5. (previously presented) The method of Claim 1 further comprising: providing a first color sample region for the source region; providing a second sample color region for the destination region; and computing a color ratio between the first color sample region and the second color sample region, wherein transforming 2D image information further comprises applying the color ratio to the 2D image information of the source region.

6. (original) The method of Claim 5, wherein the color ratio is computed using Gaussian weighted averages of the first and second sample color regions.

7. (original) The method of Claim 5, wherein the first color sample region is provided with respect to the first world plane.

8. (previously presented) The method of Claim 1, further comprising specifying a second world plane and a relative scale factor in the 2D image, wherein: determining a source region in the 2D image comprises determining a source region in the 2D image relative to the first world plane and corresponding to the destination region relative to the second world plane and the relative scale factor; and transforming 2D image information comprises

transforming the 2D image information of the source region relative to the first world plane to 2D image information of the destination region relative to the second world plane and the relative scale factor.

9. (original) The method of Claim 8, wherein specifying the second world plane comprises specifying two sets of parallel lines.

10. (original) The method of Claim 8, wherein specifying the relative scale factor comprises specifying a line segment of unit length relative the first world plane and specifying a line segment of unit length relative to the second world plane.

11. (previously presented) A clone-brushing method of painting in an 2D image, the method comprising: a) providing a first color sample region; b) providing a second color sample region; c) computing a color ratio between the first color sample region and the second color sample region; d) providing a source position in the 2D image; e) providing a destination position in the 2D image; f) identifying a destination region in the 2D image relative to the destination position; g) determining a source region in the 2D image corresponding to the destination region wherein the source region in the 2D image is determined by a transformation that maps the destination position to the source position and a homography defined by the first world plane; h) applying the color ratio to 2D image information of the source region and

transforming the 2D image information of the source region to 2D image information of the destination region; and i) painting by copying the transformed 2D image information to the destination region.

12. (original) The method of Claim 11, wherein the color ratio is computed using Gaussian weighted averages of the first and second sample color regions.

13. (previously presented) A clone-brushing method of painting in an 2D image, the method comprising: a) providing a source position in the 2D image; b) providing an initial destination position in the 2D image; c) determining a snapped destination position; d) identifying a destination region in the 2D image relative to the snapped destination position; e) determining a source region in the 2D image corresponding to the destination region wherein the source region in the 2D image is determined by a transformation that maps the destination position to the source position and a homography defined by the first world plane; f) transforming 2D image information of the source region to 2D image information of the destination region; and g) painting by copying the transformed 2D image information to the destination region.

14. (previously presented) The method of Claim 13, wherein determining a snapped destination position comprises searching a collection of candidate destination positions.

15. (previously presented) The method of Claim 14, wherein determining a snapped destination position further comprises applying a quality metric to the source position, applying the quality metric to the candidate destination positions, and determining a snapped destination position from the collection of candidate destination positions whose quality is similar to the quality of the source position.

16. (original) The method of Claim 15, wherein the quality metric is a Gaussian-weighted color average for a region surrounding the position.

17. (original) The method of Claim 15, wherein the quality metric compensates for regional color variation by applying a color ratio.

18. (previously presented) A system for clone-brushing in a 2D image, the system comprising: a computer comprising a processor, memory, and a display, the memory containing instructions that, when executed by the processor, cause the computer to: receive an input 2D image; interact with a user to specify a first world plane in the 2D image; interact with a user to provide a source position and a destination position in the 2D image; interact with a user to identifying a destination region in the 2D image relative to the destination position; determine a source region in the 2D image relative to the first world plane and corresponding to the destination region wherein the

source region in the 2D image is determined by a transformation that maps the destination position to the source position and a homography defined by the first world plane; transform 2D image information of the source region relative to the first world plane to 2D image information of the destination region; and clone-brush by copying the transformed 2D image information to the destination region.

19. (original) The system of Claim 18, wherein the instructions, when executed by the processor, further cause the computer to interact with the user to specify a world plane by drawing two sets of parallel lines.

20. (previously presented) The system of Claim 18, wherein the instructions, when executed by the processor, further cause the computer to interact with the user to: provide a first color sample region for the source region; provide a second sample color region for the destination region; and compute a color ratio between the first color sample region and the second color sample region, wherein step the color ratio is applied to the 2D image information of the source region.